

1 **METHOD AND APPARATUS FOR DEBLURRING AND RE-BLURRING IMAGE**
2 **SEGMENTS**

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4 Abstract of the Disclosure

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6 Using image segmentation in video compression brings about a limitation in
7 video quality when a segment moves in position from frame to frame. The limitation arises
8 because color contributions (bleeding or blurring) naturally occur between neighboring
9 segments. The above-identified problem is overcome by providing solutions to compensate
10 for color contributions between neighboring segments. In accordance with one embodiment,
11 a method and apparatus de-blurs an image segment. De-blurring involves removing from the
12 segment approximate color contributions from neighboring segments. This results in a
13 segment that is approximately independent of color contributions from neighboring segments.
14 In accordance with another embodiment, a method and apparatus re-blurs an image segment.
15 Re- blurring involves adding to the segment approximate color contributions from a new
16 arrangement of neighboring segments. This results in more realistic rendering of the
17 segment, as it is located in the new arrangement.